

FROM: Philadelphia, Pa. 19101		DATE OF DOCUMENT: 4-15-66	DATE RECEIVED: 4-18-66	NO.: 1101
TO: T. P. Handley		LTR. X	MEMO:	REPORT:
Don P. Harmon		ORIG. 1	OTHER: 2 cys. reproduced	
CLASSIF. U		ACTION NECESSARY <input type="checkbox"/>	CONCURRENCE <input type="checkbox"/>	DATE ANSWERED:
POST OFFICE REG. NO.		NO ACTION NECESSARY. <input type="checkbox"/>	COMMENT <input type="checkbox"/>	BY:
DESCRIPTION: (Must Be Unclassified)		FILE CODE: 40-7344		
Ltr. trans:		REFERRED TO	DATE	RECEIVED BY
		Yuschauner	4/19	
		w/file cy. & file		
		1-compliance		
ENCLOSURES: (4cys. rec'd)		DO NOT REMOVE		
Form A C-2 req. that SUB-831 b amended to cover 150 lbs. of depleted U which will be used as a Sandia supplied sealed component for experimental studies in Nevada Test Site....				
Resume on Mr. Roland A. Lincoln who is the supervisory personnel for this Lic.				
REMARKS: Distribution: 1-FDM cy.		ACKNOWLEDGED		1101

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**GENERAL  ELECTRIC
COMPANY**

3198 CHESTNUT STREET, PHILADELPHIA, PENNA. 19101 . . . TELEPHONE 823-1000

**MISSILE AND
SPACE DIVISION**

**RE-ENTRY SYSTEMS
DEPARTMENT**

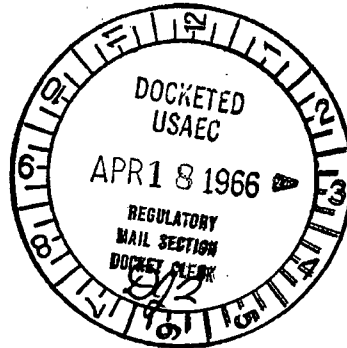
April 15, 1966

United States Atomic Energy Commission
Source & Special Nuclear Materials Branch
Division of Materials Licensing
Washington, D. C. 20545

Attention: Mr. Don F. Harmon

Ref: DML:KEL - 10/21/65

40-7344
SUB-831 File Copy



APR 19 1966
FM 1 56

Dear Mr. Harmon:

I am enclosing Form AEC-2 requesting an amendment to our Source Material License No. SUB-831. Your efforts in processing this amendment would be appreciated.

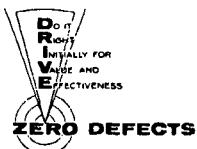
If you have any questions, please feel free to call me collect.

Very truly yours,

T. P. Handley, Manager
Security, Safety and Plant Protection
Room 6112 - Exts. 3395, 96, 97

TPH:mca

Encl.



ACKNOWLEDGED

1101

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input checked="" type="checkbox"/> (b) Amendment to License No. SUB-831</p> <p><input type="checkbox"/> (c) Renewal of License No. _____</p> <p><input type="checkbox"/> (d) Previous License No. _____</p>		<p>2. NAME OF APPLICANT General Electric Co.</p> <p style="text-align: center;">Re-Entry System Department</p> <p>3. PRINCIPAL BUSINESS ADDRESS</p>																	
<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p style="text-align: center;">3198 Chestnut Street, Philadelphia, Penna.</p>																			
<p>5. BUSINESS OR OCCUPATION</p> <p>Missile Re-Entry System</p>		<p>6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP</p> <p style="text-align: center;">N/A</p>	<p>(b) AGE</p> <p style="text-align: center;">N/A</p>																
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p style="text-align: center;">This material will be used as a Sandia supplied sealed component for experimental studies in Navado Test Site.</p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) TYPE</th> <th style="width:25%;">(b) CHEMICAL FORM</th> <th style="width:25%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width:25%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NATURAL URANIUM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td></td> <td style="text-align: center;">sealed container by Sandia Corp. surface reading of less than 1 MR/hr.</td> <td style="text-align: center;">150 pounds.</td> </tr> <tr> <td>THORIUM (ISOTOPE)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)</p> <p style="text-align: center;">150 pounds</p>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NATURAL URANIUM				URANIUM DEPLETED IN THE U-235 ISOTOPE		sealed container by Sandia Corp. surface reading of less than 1 MR/hr.	150 pounds.	THORIUM (ISOTOPE)			
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<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES.</p> <p style="text-align: center;">The material will be received from the Sandia Corp. in a sealed condition surface reading of no more than 1 MR/hr. This item will be mated without modification to the matching General Electric hardware in an assembly area and the total package shipped to the Navado Test Site.</p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL).</p> <p style="text-align: center;">Mr. Roland A. Lincoln is designated as the supervisory Personnel for this item, see attached resume.</p>																			
<p>11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument).</p> <p style="text-align: center;">SAME</p>																			
<p>(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier).</p> <p style="text-align: center;">SAME</p>																			

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11(c). VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS, MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.

N/A

DOCKET NO. 40-7344

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12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

SAME

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

SAME

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

SAME

13. WASTE PRODUCTS: If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here and explain on a supplemental sheet:

- (a) Quantity and type of radioactive waste that will be generated. **NONE**
- (b) Detailed procedures for waste disposal.

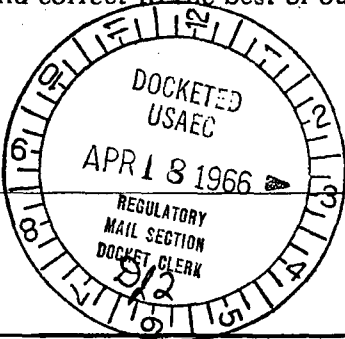
14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

- (a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.
- (b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.
- (c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.
- (d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

CERTIFICATE

(This item must be completed by applicant)

15. The applicant, and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.



Dated

General Electric Company
Re-Entry Systems Department

(Applicant named in Item 2)

BY:

T. P. Handley
(Print or type name under signature)

T. P. Handley, Manager
Security, Safety & Plant Protection

(Title of certifying official authorized to act on behalf of the applicant)

WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

ACKNOWLEDGED

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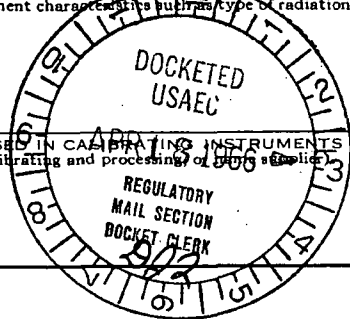
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ACKNOWLEDGED

1101

ROLAND A. LINCOLN

BORN: (b)(6)

BEE - CORNELL UNIVERSITY (b)(6)

MSEE - UNIVERSITY OF NEW MEXICO 1960

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General Electric Company
Re-Entry Systems Department
Missile & Space Division
Philadelphia, Pennsylvania

DOCKET NO. 40-7344

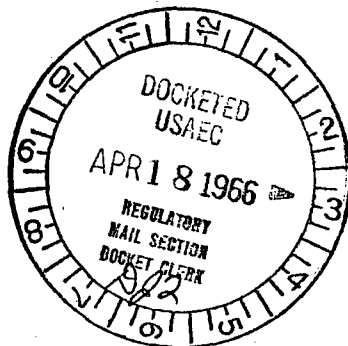
July 1965 to Present

Project Officer in charge of the three experiments to be conducted on underground events at the Nevada Test Site.

Sandia Corporation
Albuquerque, New Mexico

July 1955 to June 1965

Supervisor of Radiation Effects on Explosive Components Section of the Explosive Component Development Division. ^{Lost 3 years} In charge of experimental studies on the radiation effects on explosives. This involved supervising three reactor tests on explosives and participation in four underground nuclear tests at Nevada Test Site. Responsibility included the actual recovery and disassembly of all experimental hardware from these tests.



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